

# Dynamic Tree Dynamics

*Brought to you by  
Rochester Arborist Workshop  
and  
Minnesota Shade Tree Short Course.*

Wednesday, July 14, 2010

Mayo Civic Center  
30 Civic Center Dr. SE  
Rochester, MN 55904

Featuring

Ken James and Brian Kane



*Ken James*



*Brian Kane*

**Ken James** is a member of the Melbourne (Australia) School of Land and Environment, and specializes in the science of tree failures during loading events, in particular, wind loading events. His research and demonstrations on the relationships among pruning practices and tree stability are some of the freshest ideas since Shigo questioned painting tree wound. If you still think that crown thinning is the way to avoid storm damage, you owe it to yourself and your clients to attend this workshop. For a bit more information on Ken's work, check out his web site:

**Brian Kane** is a worthy accomplice for this workshop on avoiding unexpected failures. Brian has earned the reputation of an arborist's researcher, and his work on predicting failures from structural defects, rigging, removal and shock loads has opened many eyes in our profession. If you haven't read any of Brian's work or seen his demonstrations, you owe it to yourself to check out his You Tube site: [youtube.com/cladrastis](http://youtube.com/cladrastis)  
We think you'll agree after viewing some of Brian's videos that his sessions alone will be worth the price of the ticket for this summer's workshop.

## REGISTRATION

**Registration is \$95/person.** Use a copy of this to register now or go online to [www.rochesterarboristworkshop.com](http://www.rochesterarboristworkshop.com) (which is open for online registration and PayPal payment starting May 28). The official brochure will be mailed out the first week of June. **To ensure the quality of the workshop, space is limited.** Mail registrations to:

**Rochester Arborist Workshop  
3930 Hwy 14 East  
Rochester, MN 55904**

Name(s)\_\_\_\_\_

Company/Organization\_\_\_\_\_

Address\_\_\_\_\_

City, ST ZIP\_\_\_\_\_

Phone\_\_\_\_\_ Email\_\_\_\_\_

\$95 for standard registration by Wednesday, July 7. Groups of 7 or more receive 15% discount. Registration includes full program, continental breakfast, buffet lunch and afternoon refreshments.

Questions should be sent to [info@rochesterarboristworkshop.com](mailto:info@rochesterarboristworkshop.com) or call Jay Maier at 507-286-8733.

## SCHEDULE

**7:30 am Registration begins** (Coffee and Pastries).  
**Allow 15 extra minutes for parking in a ramp and walking to the Mayo Civic Center main lobby.**

**8:00 am Classroom Sessions**  
**Ken** will begin by presenting the latest results of his multi-year study on tree damage from wind-loading events. These studies indicate urban tree stability in wind loading events (thunderstorms to straight-lined winds) is most dependent on the branch dynamics. This session will help you assess the consequences of wind storms on urban landscape trees. As important, Ken will discuss the relationship of pruning practices to tree stability.

**Brian** will complete the morning sessions with two presentations: one on the effects of pruning on wind-induced bending moments and trunk stress (aka, wind gusts and torques) and a second on the effects of pruning and leaf condition on the tolerance of a tree to normal wind loading events.

**11:30 am Lunch**

**12:45 pm Concurrent Sessions (30 minutes each)**

1. **Strain gauge demonstrations** and the observation of loads on tree movement
2. **Pull and release test** on large and small trees with differing forms.
3. **Determining strength loss.** An elaboration of the effects of different decays on strength loss
4. **Effects of pruning on tree dynamics**, in particular: crown raising, crown reduction, crown thinning
5. **The motion of the root plate** due to dysfunctional root systems or soil extremes
6. **Branch attachment strength as a failure variable**